

Kodak

INSTAMATIC M100 Sound Projector

FOR SUPER 8 FILMS



- Record voices, music, sound effects right on your films
- Automatic threading all the way through the projector
- Transistorized amplifier for instant, quality sound
- 1200-foot reel capacity
- Comes with built-in speaker, microphone, phono cord, 400-foot reel

New KODAK INSTAMATIC M100 Sound Projector makes it 1-2-3 easy to add the excitement of sound to your Super 8 movies

How magnetic sound makes Super 8 movies more entertaining for the home; more educational for schools, churches; more effective for business.

Home movies really come to life when you add family voices, your own commentaries, spoken titles, background music and special sound effects. And magnetic sound lets you change sound tracks as often as you wish so your films can be ever more entertaining.



School movies can be tailored to the interest level of different age groups and class needs simply by re-recording the sound track. Instructional sound films can be produced quickly and at low cost. Since Super 8 film is more compatible to reduction from 16mm originals, it is expected that many existing 16mm films will soon be available in Super 8 format.



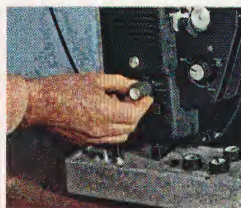
Business films with magnetic sound tracks can be produced by company personnel at low cost using the KODAK INSTAMATIC M100 Sound Projector. Films for personnel and sales training and other company activities can easily be kept up to date. Original scripts can be re-recorded in foreign languages to meet new selling opportunities in world-wide markets.



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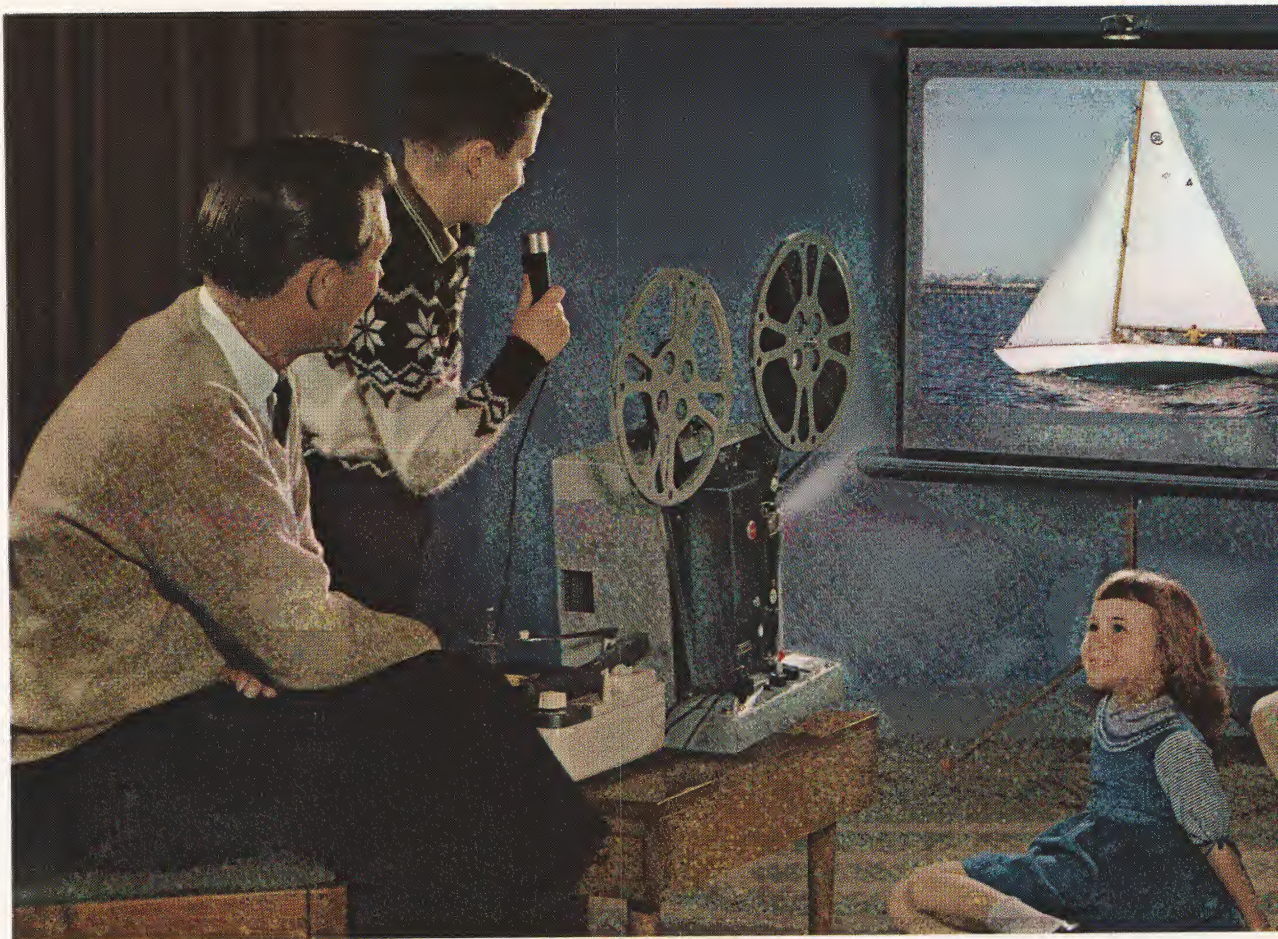


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1 Take your processed Super 8 film to your Kodak dealer for magnetic oxide striping, such as KODAK SONOTRACK Coating. You will notice that the actual recording stripe is put *opposite* the sprocket holes on this new Super 8 film to assure better sound fidelity. KODAK SONOTRACK Coating also adds a stripe to the sprocket side to balance the film and give more projection control.

2 Now, project your striped film on the KODAK INSTAMATIC M100 Sound Projector and record your commentary through the microphone supplied with the projector. At the same time, you can record background music or other special effects using your record player or tape recorder. A phono connector cord comes with the projector. You can record at either 18 or 24 frames per second to match the speed at which you operate your camera.

3 You're now ready to play back the sound track by rewinding and projecting the film again. If you wish to make changes in commentary or music, just reverse the film at a fast 24 frames per second. Then re-record until the sound is the way you want it. Re-recording automatically erases the previous sound and substitutes the new. It's just like using a tape recorder! And since only 18 frames separate sound from picture, editing is easier.



Bright, sparkling movies with the voices of children, background music and more... they're yours with the new **KODAK INSTAMATIC M100 Sound Projector**

Flick on the M100 Projector. Instantly the happy sound of young voices floods the room to bring movies of your children and their playmates truly to life.

The scene changes. Background sounds quickly establish a new mood. Music fades in and out when and where you want it. Vacation and travel movies gain pace and interest when you add your own commentary.

And it's all so easy to have. The M100 Projector features *automatic threading* all the way through the projector gate and sound mechanism. It accepts 1200-foot reels for uninterrupted showings up to a full hour. Projector can be manually unloaded at any time.

Sound adds an exciting new dimension to your movies. Sound plus sight makes them more than ever *the nearest thing to life itself*.

Superb reproduction

Close your eyes for a moment. Listen to the KODAK INSTAMATIC M100 Sound Projector play back your sound track. Voices of family and friends have a natural, lifelike quality. You hear pure, sparkling sound with clear highs and true lows—unmuddled by distortion. The transistorized amplifier requires no warm-up.

The M100 Sound Projector's reproduction reaches a standard of fidelity not often surpassed—even in 16mm sound movies. And thanks to Kodak's special magnetic recording head of Alfenol—a recent achievement in magnetic metallurgy—the M100 maintains this uniform high quality of sound indefinitely. Projector operation is unusually quiet—so you can enjoy to the full the sound you want to hear.



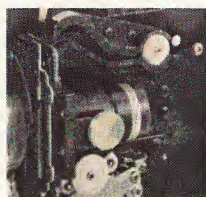
music, sound effects ...

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Brilliant screenings

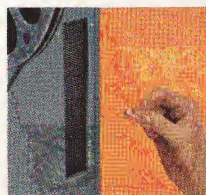
The images projected by the M100 live up to the high quality established by the sound. A new DKR low-voltage projection lamp and superfast $f/1.0$ lens pour out brilliant light to flood your screen with brighter, sharper, more colorful images than you've ever seen in home movies. Show them up to 7 feet wide if you wish. New Super 8 film's larger picture area lets you dominate a living room, a classroom, a conference room with crisp, clear movies with a wealth of detail not possible with regular 8mm.

The KODAK INSTAMATIC M100 Sound Projector is built into its own case for convenience in carrying. Hear it, and see it for yourself—in action. Comes with microphone, phono cord, and 400-foot take-up reel.



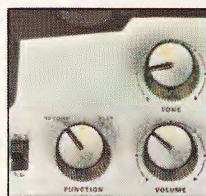
Automatic threading

No diagrams to follow. Threading is automatic—through the film gate and all the way around the sound head. Film is then easily attached to the take-up reel without stopping or slowing down the projector.



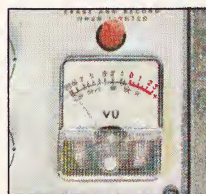
Transistorized sound

Just turn on the M100 Projector and hear and see your movies instantly. No warm-up. No time-lag between picture and sound. And you get rich, undistorted sound because the printed-circuit, transistorized amplifier operates at the power level that produces the best possible sound from the built-in 10 x 2-inch speaker. There's power to operate external speakers, too.



Easy-to-use recording controls

The record-play switch has push-turn action to prevent accidental erasure of any previous sound track. The red light tells you when the projector is recording. Tone control for playback assures highest fidelity. Volume control to adjust sound level.



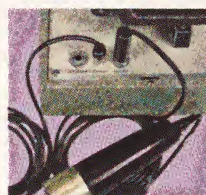
VU dial for precision volume control

A meter needle lets you see exactly the volume at which you're recording. It's accurate to a fraction of a decibel—lets you record at peak efficiency with precise, continuing volume control for optimal results.



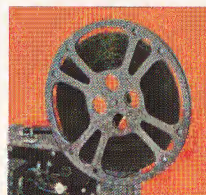
Incredibly hard Alfenol recording head

The magnetic head on the KODAK INSTAMATIC M100 Sound Projector is made of a new metal called Alfenol. It will record for thousands of hours without any loss in the quality of the sound produced.



Microphone and phono inputs; Speaker outlet

With the two inputs, you can record voices and music—separately or at the same time. The speaker outlet lets you play back the sound track through a separate speaker or your own home sound system. You can use the projector as a PA system, too.



1200-foot reel capacity

The KODAK INSTAMATIC M100 Sound Projector is furnished with a 400-foot take-up reel. But for full-hour, uninterrupted showings, optional 1200-foot reels may be used. The full 1200 feet of film can be re-wound in less than two minutes.

KODAK INSTAMATIC M100

Sound Projector

SPECIFICATIONS

PROJECTOR

Dimensions—Length, 13 $\frac{3}{8}$ inches; height, 16 $\frac{1}{4}$ inches; width, 10 $\frac{1}{2}$ inches.

Weight—33 pounds, including case cover.

Case—Built-in. Two-tone finish. Luggage-type carrying handle.

Cord—10-foot power cord is permanently attached.

Reel arms—Attached to projector for quick setups.

Film capacity—1200 feet of Super 8 film.

Operates—110-125 volts, 60 cycles AC.

Threading—Fully automatic through gate and around sound drum.

Projection controls—Separate switches for motor and lamp.

Projection speeds—18 and 24 frames per second.

Reverse action—24 frames per second.

Rewind—Motor driven. 1200 feet of film can be rewound in less than 2 minutes.

Elevating control—Works easily with one hand.

Film gate—Readily removed for inspection and cleaning.

Lubrication—Mechanism will never need oiling.

OPTICAL SYSTEM

Lamp—DKR low-voltage type.

Lens—KODAK Projection EKTAR Lens, 28mm, f/1.0.

Illumination—Choice of two light levels: brilliant for showings and a lower light level to prolong lamp life—for use when recording or editing.

Lamp-saver switch—For local voltage adjustment.

SOUND SYSTEM

Magnetic head—Made of new Alfenol metal which provides lasting, uniform, high-quality sound from the magnetic track. A 3-position control (1) positions head for sound (2) removes for silent operation (3) opens sound head system for manual unloading of film.

Picture/Sound separation—There's only 18 frames between the picture and sound for ease of editing—made possible by new scanning system at sprocket hub.

Speaker—10 x 2-inch oval speaker is built in projector case. There is an output for playing through any external speaker and/or home sound system. (Projector accepts KODAK Duo-Twin Speaker Unit.)

TRANSISTORIZED AMPLIFIER

Record-play switch—Self-locking to prevent accidental erasure of sound track. Red light goes on automatically when projector is in record position.

Volume and tone—Separate control knobs.

PA facility—Projector can be used as a public address system. Switch on microphone circuit.

VU meter—Enables operator to record at optimum volume level.

Transistors—5-2N2712; 1-2N1305; 1-2N1102; 2-2N2147.

Frequency response—70 to 9,000 cycles at 24 fps.

70 to 7,000 cycles at 18 fps.

Kodak

INSTAMATIC MOVIE EQUIPMENT

Cameras • Projectors • Film • Aids



New instant-loading cameras



New KODAPAK Movie Cartridges
with Super 8 KODACHROME II Film



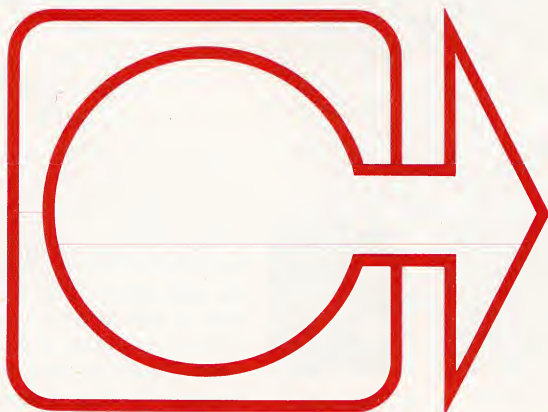
New self-threading projectors



Open...

drop in...

shoot!



This symbol represents a breakthrough in home movies. You will find it only on KODAK INSTAMATIC Movie Cameras, Projectors, Film, and Aids.

Kodak brings the INSTAMATIC Camera idea to movies!

It's a complete new system of movie-making. A new kind of movie camera that loads instantly. A new kind of movie film that gives you sharper, clearer, more colorful movies than ever before. And it couldn't be easier.

No film-threading. No fussing. No film-flipping. Just slip a KODAPAK Movie Cartridge into the camera and shoot a complete roll of brilliant color movies. At the end of the roll, just drop out the film cartridge. When the processed film comes back, you'll see—on your screen—movies that are more than ever *the nearest thing to life itself!*

from loading to showing...

KODAK INSTAMATIC movie equipment new fun to home movies

A new kind of movie camera

These new cameras do for movies what INSTAMATIC Still Cameras did for snapshots. Now, without problems, you can have the *movies* you've always wanted.

New KODAK INSTAMATIC Movie Cameras load instantly. There is no threading. There's no winding. No pause for film flipover. An electric motor drives the film for you *automatically*—roll after roll.

Kodak has designed these new INSTAMATIC Movie Cameras to help you get the sharpest possible pictures. All models are equipped with a fast $f/1.8$ lens to enable you to get full-color movies even in dim light. Today, home movies are truly as easy to make as INSTAMATIC Camera snapshots.



KODAK INSTAMATIC M6 Movie Camera. It lets you enjoy the thrill of zoom movies! Battery-powered CdS electric-eye exposure control operates through the lens for highest accuracy. No parallax problems because you also view through the lens. Manual control lets you adjust for backlighting scenes. With fold-away pistol grip, focusing $f/1.8$ zoom lens, battery drive.

KODAK INSTAMATIC M2 Movie Camera. It has a fixed-focus lens to get clear, sharp Super 8 movies from a few feet to infinity. Manual exposure control is so simple that everything you need to know is pictured right on the camera. With $f/1.8$ lens, battery drive.



KODAK INSTAMATIC M4 Movie Camera. It has all the features of the M2 model plus a fully automatic, battery-operated CdS electric eye that sets exposures for you. A signal in the viewfinder warns you when light is too dim for good movies. With $f/1.8$ lens, battery drive.

A new kind of movie film



The movies you make with Super 8 KODACHROME II Movie Film are more lifelike than ever! That's because the image on the film is 50% larger in area than the one you get with regular 8mm film. And it is an improved film with

finer grain. You get brighter, sharper, more colorful movies than ever before. Bigger, sharper pictures on the film mean better movies on your screen.

Easier than ever to handle

The KODAPAK Movie Cartridge is factory-loaded with KODACHROME II Film, Type A. There's only one way to put it in the camera—the right way. Just slip the car-



Super 8 film format



Regular 8mm film format

tridge into a KODAK INSTAMATIC Movie Camera and shoot! You can take a full 50-foot roll without stopping, if you wish. There's no need to flip over the film at midpoint as with regular 8mm

film. No possibility of half-exposed rolls. No delays or missed scenes. No edge-fogging because you never touch the film. At the end of a roll, just drop out the cartridge, drop in another, and you're set to go again. No chance of double exposures. A final loop of film, imprinted "EXPOSED," tells you that the film has gone through the camera. Good movies have never been so sure—so easy to take and show!

ent brings new ease, new convenience,

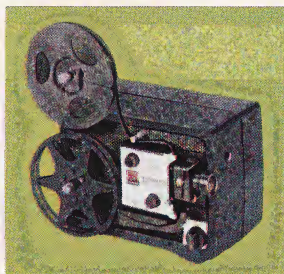
A new kind of movie projector

To make Super 8 movies as wonderfully simple and enjoyable to show as they are to take, Kodak has developed a whole new line of movie projectors. They all thread themselves automatically. They take full advantage of Super 8 movie film's bigger picture area to give you brilliant movies, and they are sharper, steadier movies because pictures are centered providing improved edge guiding to hold film flat.

Two of the models are budget-priced. Three of them are compact, multispeed projectors with new flip tops that swing instantly into position, spindles ready for loading 400-foot-capacity reels. The last offers brilliant sound projection with 1200-foot capacity.

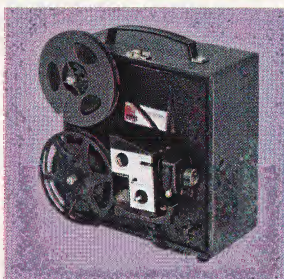
KODAK INSTAMATIC M50 Movie Projector.

Automatic threading all the way onto the take-up reel. A single knob controls forward projection and power rewind. Has 200-foot reel capacity. With $f/1.5$ lens.



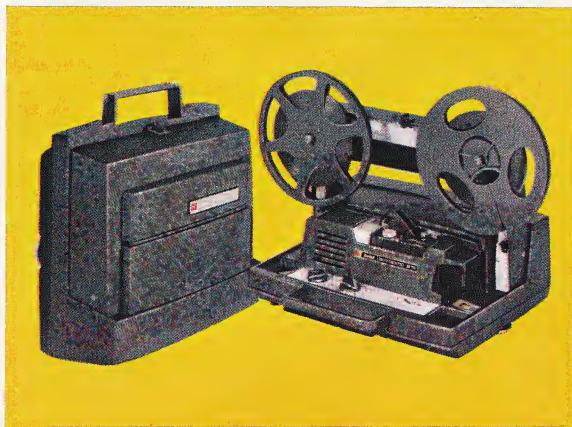
KODAK INSTAMATIC M60 Movie Projector.

Not only threads and projects, but rewinds the film—all automatically. Has $f/1.5$ lens, built-in case with preview screen in the cover.



KODAK INSTAMATIC M100 Sound Projector. (Not shown)

Lets you record and show your own Super 8 magnetic sound movies. Automatic threading. Completely transistorized for instant sound. Only 18 frames separate picture and sound for easier editing. 1200-foot reel capacity. With built-in speaker, microphone, external speaker jack, $f/1.0$ lens. For complete details, see Kodak Customer Service Series Brochure No. C3-366.



KODAK INSTAMATIC M70 Movie Projector.

Portable as an attaché case, yet it offers you 7 ways to enjoy your movies. As fast as you can flick your finger, you can switch from forward to reverse at any speed—from flicker-free slow motion, to normal speed, to a super-fast 54 frames per second, all brilliantly illuminated. And there's "still" projection, too. Switch back and forth as often as you wish.

Delight your audiences. Now you can add interest and pace to your movies—hustling through some scenes, lingering over others. Add comedy effects when and where you wish. Slow down or stop completely to study motion, frame by frame. The M70 puts more fun into every foot of film. With automatic threading right onto the take-up reel and $f/1.5$ or $f/1.5$ zoom lens.

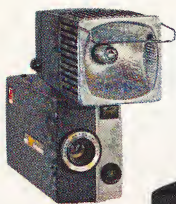
KODAK INSTAMATIC M80 Movie Projector. (Not shown)

Has all the features of the M70 Projector, but in addition it will show regular 8mm films as well as Super 8 films. If you're already in movies and want 7-speed projection for your old reels, too, this is the one for you. Available with $f/1.5$ or $f/1.5$ zoom lens.

KODAK INSTAMATIC M90 Movie Projector. (Not shown)

If you want the brightest possible projection of Super 8 films, ask to see the M90 model. Its new low-voltage lamp and super-fast $f/1.0$ lens make possible this extra brilliance. Has all the other features of the M70 projector, plus a room-light receptacle. With $f/1.0$ lens or $f/1.5$ zoom lens.

Movie Aids



KODAK INSTAMATIC

Movie Light. Slips on instantly and automatically removes filter built in the camera to let you make movies indoors.



KODAK INSTAMATIC M2/M4 Case.

Protects camera, yet keeps it ready. Holds M2 or M4 camera and two KODAPAK Movie Cartridges.



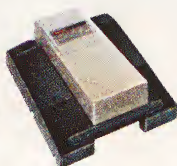
KODAK INSTAMATIC M6 Case.

Protects your camera from wear and damage. Holds M6 model plus two KODAPAK Movie Cartridges.



KODAK Movie Reels (Super 8).

Assemble your Super 8 movies on larger reels for longer, uninterrupted shows. 200- and 400-foot reels come in handsome storage carton. 1200-foot reels and cans also available.



KODAK Universal PRESSTAPE Movie Splicer.

Revolutionary dry splicer for KODAK Super 8, regular 8mm, and 16mm movie films. No water, no cement! Easy to use. Comes with Super 8 PRESSTAPES.



KODAK Projection Screen (40 x 40).

This deluxe screen with beaded surface is ideal for movies or slides. Its tripod legs open automatically for quick setups. Easy to adjust the height. Easy to store.